

**PRECAUTIONARY STATEMENT
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER

Keep out of reach of children. extremely hazardous liquid and vapor under pressure. Inhalation may be fatal or cause delayed lung injury. Liquid and vapor cause burns which may be delayed. Do not breathe vapor, use only with adequate ventilation. Do not get in eyes, on skin or on clothing. Do not use ordinary rubber protective clothing including gloves and boots. Keep away from heat. Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provision of 30 CFR Part II. Chloropicrin must never be depended upon as a warning agent when a gas mask is worn. Send for a doctor immediately in case of exposure.

Always have an assistant to aid in case of accidents when releasing fumigant from inside of a structure. Wear appropriate respiratory protection. Keep animals, children and unauthorized people away from area under treatment until area is certified free of Methyl Bromide. (See aeration statement.)

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Do not discharge in lakes, stream, ponds or public water unless in accordance with a National Pollution Discharge Elimination System permit. For guidance, contact your regional office of EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal:

Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal:

Close cylinder and return to distributor or manufacturer.

RETURN OF CYLINDERS

- (1) Cylinders are the property of Hy-Yield Bromine, P.O. Box 24, Highway 133, Rocky Pt., N.C. 28457 and should be returned promptly by collect auto freight.
- (2) When a cylinder is empty, the valve should be closed, the safety cap screwed on the valve outlet, and the protective bonnet replaced prior to its return to the shipper.
- (3) Do not ship cylinders without safety caps or valve protection bonnets.
- (4) When a cylinder is partially full and there is no further requirement for the product, contact Hy-Yield Bromine for return instructions.
- (5) Containers should never be refilled by the consumer or used for any other product or purpose.

SHIPPING

This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as Methyl Bromide Liquid or Methyl Bromide and Non-flammable, Non-liquefied compressed gas mixture, Liquid, class "B" poison, and no exemptions from specification packaging, marking and labeling are allowed. Describe empty cylinders as having last contained Methyl Bromide Liquid or Methyl Bromide and Non-flammable, Non-liquefied compressed gas mixture, Liquid. Do not ship with food, feeds, or clothing.

HANDLING

- (1) The valve protection bonnet and safety cap should be removed only when fumigant is about to be removed from the cylinder.
- (2) Cylinders should never be subjected to rough handling or to abnormal mechanical shock such as dropping, bumping, dragging or sliding.
- (3) Rope slings, hooks, tongs, and similar handling devices should not be used for unloading cylinders.
- (4) A suitable hand truck, fork truck, or similar device to which the cylinders can be firmly secured, should be used for transporting the heavier cylinders.

(see right panel)

RESTRICTED USE PESTICIDE:

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

98-2

CONTAINS 2% CHLOROPICRIN

ACTIVE INGREDIENTS:	By WL*
Methyl bromide	98%
Chloropicrin	2%
	100%

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

Statement of Practical Treatment

If inhaled — Carry patient to fresh air. Call a physician at once. Make sure patient can breathe freely. Keep patient lying down and warm. Give artificial respiration if breathing has stopped. Oxygen should be administered only by qualified personnel.

If on skin — Immediately remove all contaminated skin covering including shoes, clothing and adhesive or other bandages. Wash skin thoroughly with soap and water; if irritation or blisters develop. Get medical attention. Do not reuse shoes or clothing until free of all contamination.

If in eyes — Flush immediately with plenty of water for at least 15 minutes and get medical attention.

See left side panel for additional precautionary statement.

EPA Reg. No. 8622-12

EPA EST No.

Net Weight

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Distributed by
Ameribrom, Inc
1250 Broadway
New York, N.Y. 10001

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DIRECTIONS FOR USE

For specific information on dosage, uses, insect problems, procedures, or safety precautions consult AME FIBROM, INC., 1250 Broadway, New York, N.Y. 10001.

This fumigant may be used in box cars, warehouses, fumigation vaults, food and cereal mills, ships and bulk grain storages. Do not fumigate if grain moisture is high, or if grain temperature is low (below 60° F.) or if there is excessive dockage.

INSECTS CONTROLLED: Granary weevil, grain beetle, rice weevil, cadellid, mites, bran bugs, grain borers, mealworms, Indian meal moth. Kills insects in all life stages. Kills rats and mice in fumigated area.

SPACE FUMIGATION: The usual dosage rate for each 1000 cu. ft. will range from 1 to 3 lbs. 12 to 24 hours exposure depending upon tightness of structure and kind and amount of commodity in storage.

BULK GRAIN DOSAGE RATES:

(General above 65° F.)

Shelled corn	2 lbs. each 1000 cu. ft.
Wheat (similar small grains)	3 lbs. each 1000 cu. ft.
Milo (grain sorghum)	4 lbs. each 1000 cu. ft.

CAUTION: Extinguish all flames such as pilot lights and glowing heating units to avoid corrosion.

Do not use dosages higher than recommended as this may in some cases result in residues in excess of those permitted. Do not fumigate food products other than those specified in directions.

Remove the following materials from building before fumigation as they may develop undesirable odors: furs, high protein flour and cereals, horsehair articles, iodized salt, patent leather articles, rubber goods, sulfur containing compounds or synthetic detergents.

WARNING: The black canister, for protection against organic vapors, should be used with a full-faced gas mask when releasing gas in buildings and when opening up for aeration after fumigation. Use halide leak detector to determine thoroughness of aeration.

IMPORTANT

Shipboard, intransit ship or shiphold fumigation is also governed by U.S. Coast Guard Regulations. Refer to and comply with these regulations prior to fumigation.

PROCEDURES

Prefumigation Procedures

1. Prior to fumigating a vessel for intransit cargo fumigation, the master of the vessel or his representative, and the fumigator must determine whether the vessel is suitably designed and configured so as to allow for safe occupancy by the ship's crew throughout the duration of the fumigation. If it is determined that the design and configuration of the vessel does not allow for safe occupancy by the ship's crew throughout the duration of the fumigation, then the vessel will not be fumigated unless all crew members are removed from the vessel. The crew members will not be allowed to reoccupy the vessel until the vessel has been properly aerated and a determination has been made by the master of the vessel and the fumigator that the vessel is safe for occupancy.
2. The person responsible for the fumigation must notify the master of the vessel, or his representative, of the requirements relating to personal protection equipment, detection equipment and that a person qualified in the use of his equipment must accompany the vessel with cargo under fumigation. Emergency procedures, cargo ventilation, periodic monitoring and inspections, and first aid measures must be discussed with and understood by the master of the vessel or his representative.

*Personal protection equipment means a gas mask or respirator for the fumigant, jointly approved by the Mining Enforcement and Safety Administration and the National Institute of Occupational Safety and Health.

(See next panel to right)

3. During the fumigation, the master of the vessel leaves port or the fumigator leaves the premises in charge of the fumigation. The fumigator should be equipped with a full-face gas mask or vapor respirator and a portable gas detector. The fumigator should be equipped with a portable gas detector. The fumigator should be equipped with a portable gas detector. The fumigator should be equipped with a portable gas detector.

4. If the fumigation is to be completed and the vessel airtight before the fumigation vessel leaves port, the fumigator should be equipped with a full-face gas mask or vapor respirator and a portable gas detector. The fumigator should be equipped with a portable gas detector. The fumigator should be equipped with a portable gas detector.

Precautions and Procedures during Voyage

Using appropriate gas detection equipment, monitor spaces adjacent to areas containing fumigated cargo and all regularly occupied areas for fumigant leakage. If leakage is detected, the area should be evacuated of all personnel, ventilated, and action taken to correct the leakage, before allowing the area to be occupied. Do not enter fumigated areas except under emergency conditions. If necessary to enter a fumigated area, appropriate personnel protection equipment must be used. Never enter fumigated areas alone. At least one other person wearing personal protection equipment should be available to assist in case of an emergency.

Precautions and Procedures During Discharge

If necessary to enter holds prior to discharge, test spaces directly above grain surface for fumigant concentration, using appropriate gas detection and personnel safety equipment. Do not allow entry to fumigated areas without personnel safety equipment, unless fumigant concentrations are at safe levels, as indicated by a suitable detector.

Placard directions for the following areas: box cars, warehouses, fumigation vaults, food and cereal mills, ships and bulk grain storages.

Fumigated areas must be placarded on all entrances with signs containing at least the signal word DANGER and the Skull & Crossbones and the words "Area under fumigation, do not enter until completely aerated, the date of fumigation, name of the fumigator used, emergency telephone number for contact, and the name and address of the fumigator. Do not remove warning signs until the fumigated area is completely aerated and safe for entry, as indicated by a suitable detector.

PREPLANT SOIL FUMIGATION

98-2 may be used as a preplant soil fumigant for land in which plants may be grown for nonfood and nonfeed crop uses. These uses are for seed and plant beds, nurseries and permanent planting sites for tobacco, lawns and other ornamental and recreational turf areas, forest and shade trees, ornamental flowers, vines and shrubs and other similar plants. 98-2 may be used in vegetable seed beds for production of plants that are later transplanted in untreated soil or soil treated to label directions for registered products, and in orchard and vineyards planting sites and soils where tomatoes, strawberries, pineapples, cauliflower, broccoli, melons and eggplants are to be grown for food.

APPLICATION: SEED AND PLANT BEDS (PLANTS GROWN FOR TRANSPLANTING)

Prior to planting apply 98-2 at the rate that appears in the dosage table by means of tractor mounted chisels spaced 12 inches apart and at a depth of 5-8 inches below the soil surface. To seal fumigant after application cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to fumigation, the soil should be in seed bed condition with adequate moisture to support seed germination. The soil should be worked to the depth it is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and time allowed for refuse to decompose before treatment.

(See next panel to right)

TURF, NURSERIES AND FLORAL CROPS

Follow directions for seed and plant beds. If fumigating on turf, the soil should be worked up before fumigating. It is desirable that the old turf be incorporated into the soil by rototilling, discing or plowing. Use rate and exposure time that is indicated in the dosage table.

TOMATOES, STRAWBERRIES, PINEAPPLES, CAULIFLOWER, BROCCOLI, MELONS, EGGPLANTS AND PEPPERS

Follow directions for seed and plant beds. Use rate and exposure time that is indicated in the dosage table.

Row or bed applications may be made at the broadcast rates but the amount used will be proportionately less per acre depending on the row spacing and width of treatment in the row or bed.

GRAPES

Prior to planting apply 98-2 at the rate that appears in the dosage table by means of tractor mounted chisels spaced not more than 5 1/2 feet apart. Inject the 98-2 at a depth of not less than 20 inches. To seal fumigant after application for disease control, cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to application the soil should be ripped to not less than 30 inches and the subsurface should be as dry as possible. Excess moisture will block deep penetration of the 98-2. Peat soils and soils very high in organic content should not be fumigated to control *Armillaria mellea* with 98-2. Clay soils and soils that drain poorly may be dried out by planting sudan grass and withholding water from it during the summer. This will increase penetration of 98-2. Do not apply 98-2 to soil where vines will bear within 24 months.

DECIDUOUS FRUITS, NUTS, CITRUS, VINEYARDS AND OTHER PERENNIAL CROPS (Do not harvest crop for 24 months after fumigation)

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BACK HOEING: Field tests have demonstrated that this is an effective method for preparing the replant site for fumigation, especially in areas where a hardpan has developed through compaction of the soil. The size of the prepared site is dependent upon the degree of soil compaction. Deeply compacted soil requires preparation of a site the size of the "planter box" in which the tree is to be grown.

For stratified soils a single cut the width of the back hoe, 5 feet deep and 6 feet long, is satisfactory. Backfill site with 2 feet of soil, place applicator tube at this level, complete backfill and release entire dose of fumigant for 100 square foot tree site. When fumigant has been released, remove tube and tamp soil lightly over opening to seal fumigant in the site.

AUGERING: This method is suitable in noncompacted soils or soils that are lightly stratified. Dig hole 5 feet deep with auger, backfill hole two feet, insert applicator tube, fill hole and release entire dose of fumigant for 100 square foot tree site. When fumigant has been released, remove applicator and tamp or compact hole with soil to prevent too rapid escape of fumigant.

TURF, NURSERIES AND FLORAL CROPS

Follow directions for seed and plant beds. If fumigating old turf, the soil should be worked up before fumigating. It is desirable that the old turf be incorporated into the soil by rototilling, discing or plowing. Use rate and exposure time that is indicated in the dosage table.

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DOSAGE AND EXPOSURE TABLE FOR SOIL FUMIGATION WITH 98-2

PEST CONTROL DESIRED	TYPE OF SOIL and/or CROP	DOSAGE Do not treat when temp below 50°F	MIN EXP	AERATION TIME BEFORE PLANTING
1	1. SANDY SOILS	400 650 #/A	5-7 days	2 weeks
2	2. CLAY SOILS	400 650 #/A	5-7 days	2 weeks
3	3. PEAT SOILS	400 650 #/A	5-7 days	2 weeks
4	4. SOILS WITH HIGH ORGANIC CONTENT	400 650 #/A	5-7 days	2 weeks
5	5. SOILS WITH HIGH ORGANIC CONTENT AND HIGH PERCENTAGE OF PERENNIAL AND OTHER PLANTS	400 650 #/A	5-7 days	2 weeks
6	6. SOILS WITH HIGH ORGANIC CONTENT AND HIGH PERCENTAGE OF PERENNIAL AND OTHER PLANTS (Sandy soils)	400 650 #/A	5-7 days	2 weeks

Citrus Soil For Control of Phytophthora in Florida Sandy Soils. This is a preplant or replant treatment. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Use a minimum of 1-1 1/4 pounds per 100 square feet. Expose to fumigation for 24 hours covering treated area with a 4 mil. tarpaulin. Will control disease to depth of 4 feet. Aerate 2 weeks before setting transplants in treated area.

ACCEPTED
 SEP 3 1982
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 8622-12

**Methyl Bromide
 Liquid UN 1062**



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